

## SEQUENCE LISTING

The patent contains a lengthy "Sequence Listing" section. A copy of the "Sequence Listing" is available in electronic form from the USPTO web site (<http://seqdata.uspto.gov/sequence.html?DocID=6825322B2>). An electronic copy of the "Sequence Listing" will also be available from the USPTO upon request and payment of the fee set forth in 37 CFR 1.19(b)(3).

What is claimed:

1. An isolated and substantially pure N-methyl-D-<sup>15</sup> aspartate receptor subunit comprising an amino acid sequence as set forth in SEQ ID NO:56, wherein said amino acid sequence is encoded by a DNA sequence comprising a sequence of nucleotides as set forth in SEQ ID NO. 55.

2. A substantially pure human N-methyl-D-aspartate <sup>20</sup> receptor subunit comprising the sequence of amino acids set forth in SEQ ID NO: 56.

3. A method for detecting a binding partner for a receptor comprising the receptor subunit of claim 2 in a sample suspected of containing the binding partner, comprising:

- (i) contacting the sample with the receptor under conditions favoring binding of the receptor to the binding partner;
- (ii) determining the presence of the binding partner in the sample by detecting binding of the receptor to the binding partner.

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